

# POLYMORPHISMS IN THE BETA-2-ADRENERGIC RECEPTOR GENE

CCCGGGTTCA	AGAGATTCTC	CTGTCTCAGC	CTCCCGAGTA	GCTGGGACTA	
CAGGTACGTG	CCACCACACC	TGGCTAATTT	TTGTATTTTT	AGTAGAGACA	100
AGAGTTACAC	CATATTGGCC	AGGATCTTTT	GCTTTCTATA	GCTTCAAAAT	
GTTCTTAATG	TTAAGACATT	CTTAATACTC	TGAACCATAT	GAATTTGCCA	200
TTTTGGTAAG	TCACAGACGC	CAGATGGTGG	CAATTTTACA	TGGCACAACC	
CGAAAGATTA	ACAAACTATC	CAGCAGATGA	AAGGATTTTT	TTTAGTTTCA	300
TTGGGTTTAC	TGAAGAAATT	GTTTGAATTC	TCATTGCATC	TCCAGTTCAA	
CAGATAATGA	GTGAGTGATG	CCACACTCTC	AAGAGTTAAA	AACAAAACAA	400
CAAAAAAATT	AAAACAAAAG	CACACAACCT	TCTCTCTCTG	TCCCAAAATA	
CATACTTGCA	TACCCCGCT	CCAGATAAAA	TCCAAAGGGT	AAACTGTCT	500
TCATGCCTGC	AAATTCCTAA	GGAGGGCACC	TAAAGTACTT	GACAGCGAGT	
GTGCTGAGGA	AATCGGCAGC	TGTTGAAGTC	ACCTCCTGTG	CTCTTGCCAA	600
A					
ATGTTTGAAA	GGGAATACAC	TGGGTTACCG	GGTGTATGTT	GGGAGGGGAG	
CATTATCAGT	GCTCGGGTGA	GGCAAGTTCT	GAGTACCCAG	ATGGAGACAT	700
CCGTGTCTGT	GTCGCTCTGG	ATGCCTCCAA	GCCAGCGTGT	GTTTACTTTC	
TGTGTGTGTC	ACCATGTCTT	TGTGCTTCTG	GGTGCTTCTG	TGTTTGTTTC	800
TGGCCGCGTT	TCTGTGTGG	ACAGGGGTGA	CTTTGTGCCG	GATGGCTTCT	
GTGTGAGAGC	GCGCGCGAGT	GTGCATGTCG	GTGAGCTGGG	AGGGTGTGTC	900
A					
TCAGTGTCTA	TGGCTGTGGT	TCGGTATAAG	TCTGAGCATG	TCTGCCAGGG	
A					
TGTATTTGTG	CCTGTATGTG	CGTGCCTCGG	TGGGCACTCT	CGTTTCCTTC	1000
CGAATGTGGG	GCAGTGCCCG	TGTGCTGCCC	TCTGCCTTGA	GACCTCAAGC	
CGCGCAGGCG	CCCAGGGCAG	GCAGGTAGCG	GCCACAGAAG	AGCCAAAAGC	1100
TCCCCGGTTG	GCTGGTAAGG	ACACCACCTC	CAGCTTTAGC	CCTCTGGGGC	
C					
CAGCCAGGGT	AGCCGGGAAG	CAGTGGTGGC	CCGCCCTCCA	GGGAGCAGTT	1200
T					
GGGCCCCGCC	CGGGCCAGCC	CCAGGAGAAG	GAGGGCGAGG	GGAGGGGAGG	
T					
GAAAGGGGAG	GAGTGCCTCG	CCCCTTCGCG	GCTGCCGCGC	TGCCATTGGC	1300
CGAAAGTTCC	CGTACGTCAC	GGCGAGGGCA	GTTCCCCCTAA	AGTCCTGTGC	
ACATAACGGG	CAGAACGCAC	TGCGAAGCGG	CTTCTTCAGA	GCACGGGCTG	1400
GAAGTGGCAG	GCACCGCGAG	CCCCTAGCAC	CCGACAAGCT	GAGTGTGCAG	
GACGAGTCCC	CACCACACCC	ACACCACAGC	CGCTGAATGA	GGCTTCCAGG	1500
CGTCCGCTCG	CGGCCCGCAG	AGCCCCGCCG	TGGGTCCGCC	CGCTGAGGCG	
T					

Figure 1A

CCCCCAGCCA GTGCGCTTAC CTGCCAGACT GCGCGCCATG GGGCAAGCCC 1600  
 C  
 GGAACGGCAG CGCCTTCTTG CTGGCACCCA ATAGAAGCCA TCGGCCCCAC  
 G  
 CACGACGTCA CGCAGCAAAC GGACGAGGTG TGGGTGGTGG GCATGGGCAT 1700  
 G  
 CGTCATGTCT CACATGCTCC TGGCCATCGT CTTTCGCAAT GTGCTCGTCA  
 TCACAGCCAT TGGCAAGTTC GAGCGTCTGC AGACCGTCAC CAAGTACTTC 1800  
 ATCAGTTTAC TTGGCCTGTGC TGATCTGGTG ATGGGGCTGG CAGTGGTGG  
 A  
 CTTTCGGGGC GGGCATATTC TTATGAAAT GTGGACTTTC GCGAAGTTCT 1900  
 CGTCCGAGTT TTGCACTTCC ATTGATGTGC TGTGGTTCAC GCGCAGCATC  
 GAGACCTGT GCGTGATCGC AGTGGATCGC TACTTGCCA TTACTTCAGC 2000  
 TTTCAGTAC CAGACCTGCG TGACCAAGAA TAAGGCCCCG GTGATCATTC  
 TGATGGTGTG GATTGTGTCA GGCCTTACCT CTTCTTGGC CATTGAGATC 2100  
 T  
 CACTGGTACC GGGCCACCCA CCAGGAAGCC ATCAACTGCT ATGCCAATGA  
 A  
 GACCTGCTGT CACTTCTTCA CGAACCAGGC CTATGCCATT GCGCTCTTCCA 2200  
 TCGTGTCCCT CTACGTTCGC CTGGTGATCA TGGTCTTCGT CTACTCCAGG  
 GTCTTTCAGG AGGCCAAAAG GCAGCTCCAG AAGATTGACA AATCTGAGGG 2300  
 CCGCTTCCAT GTCCAGAACCC TTAGCCAGGT GGAGCAGGAT GGGCGGACCG  
 GGCATCGACT GCGCAGATCT TCCAAGTTCT GCTTGAAGGA GCACAAAGCC 2400  
 CTCAAGACGT TAGGCATCAT CATGGGCACT TTCACCCCTC GCTGGCTGGC  
 CTTCTTCATC GTTAACATTG TGCATGTGAT CCAGGATAAC CTCATCCGTA 2500  
 AGGAAGTTTA CATGCTCCTA AATTGGATAG CCTATCTCAA TCTGCTTTTC  
 AATCCCCCTA TCTACTGCCG GAGCCAGAT TTCAGGATTG CTTTCCAGCA 2600  
 GCTTCTGTGC CTGCGCAGGT CTTCTTTCAA GGCCTATGGG AATGGCTACT  
 CCAGCAACCC CAACACAGCG GAGCAGAGTC CATATCACCT GGAACAGCAG 2700  
 AAAGAAATA AACTGCTGTC TGAAGACCTC CCAGCCACCG AAGACTTTGT  
 GGGGCATCAA GGTACTGTGC CTAGCCATAA CATGATTCA CAAGGGAGGA 2800  
 ATTGTAGTAC AAATGACTCA CTGCTCTAAA GCAGTTTTTC TACTTTTAAA  
 GACCCCCCCC CCCCCAACAG AACACTAAAC AGACTATTTA ACTTGAGGGT 2900  
 AATAAACTTA GAATAAAATT GTAAAAATTG TATAGAGATA TGCAGAAGGA  
 AGGGCATCCT TCTGCCTTTT TTATTTTTTT AAGCTGTAAA AAGAGAGAAA 3000  
 ACTTATTTGA GTGATTATTT GTTATTTGTA CAGTTCAGTT CCTCTTTGCA  
 TGGAATTTGT AAGTTTATGT CTAAAGAGCT TTAGTCCTAG AGGACCTGAG 3100  
 TCTGCTATAT TTTCATGACT TTTCCATGTA TCTACCTCAC TATTCAAGTA  
 TTAGGGGTAA TATATTGCTG CTGGTAATTT GTATCTGAAG GAGATTTTCC 3200  
 TTCCTACACC CTTGGACTTG AGGATTTTGA GTATCTCGGA CCTTTCAGCT

Figure 1B

GTGAACATGG	ACTCTTCCCC	CACTCCTCTT	ATTTGCTCAC	ACGGGGTATT	3300
TTAGGCAGGG	ATTTGAGGAG	CAGCTTCAGT	TGTTTTCCCG	AGCAAAGGTC	
TAAAGTTTAC	AGTAAATAAA	ATGTTTGACC	ATGCCTTCAT	TGCACCTGTT	3400
TGTCCAAAC	CCCTTGACTG	GAGTGCTGTT	GCCTCCCCCA	CTGGAAACCG	
C					3451

Figure 1C

# ISOFORMS OF BETA-2-ADRENERGIC RECEPTOR (ADRB2)

MGQPGNGSAF	LLAPNRSHAP	DHDVTQQRDE	VWVVGMGIVM	SLIVLAIVFG	
	G	E			
NVLVITAIK	FERLQVTNY	FITSLACADL	VMGLAVVPFG	AAHILMKMWT	100
FGNFWCEFWT	SIDVLCVTAS	IETLCVIAVD	RYFAITSPFK	YQSLLTKNKA	
RVIILMVWIV	SGLTSFLPIQ	MHWYRATHQE	AINCYANETC	CDFFTNQAYA	200
	I				
IASSIVSFYV	PLVIMVFVYS	RVFQEAKRQL	QKIDKSEGRF	HVQNLSQVEQ	
DGRTGHGLRR	SSKFCLKEHK	ALKTLGIIMG	TFTLCWLPFF	IVNIVHVIQD	300
NLIRKEVYIL	LNWIGYVNSG	FNPLIYCRSP	DFRIAFQELL	CLRRSSLKAY	
GNGYSSNGNT	GEQSGYHVEQ	EKENKLLCED	LPGTEDFVGH	QGTVPDNDID	400
SQGRNCSTND	SLL				413

FIGURE 2

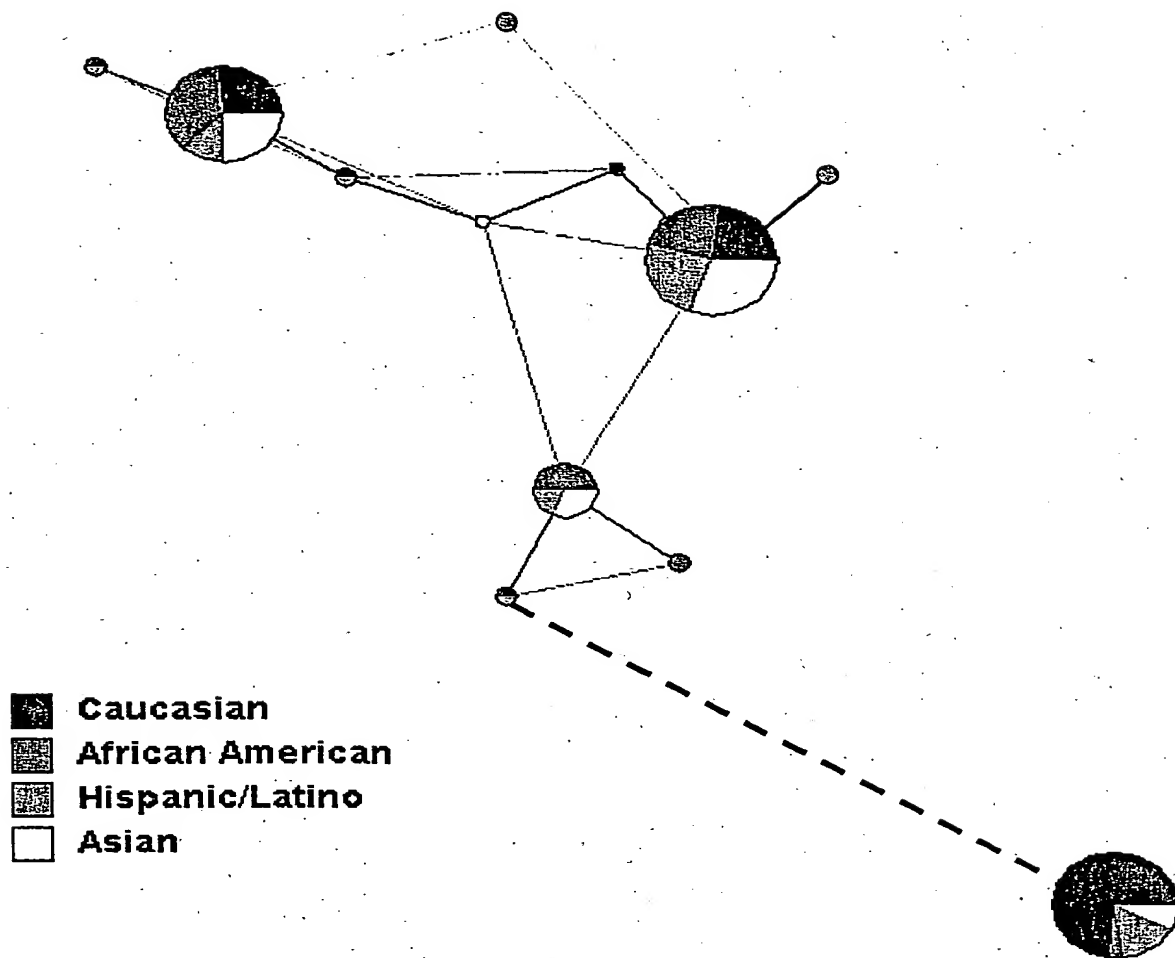


Figure 3



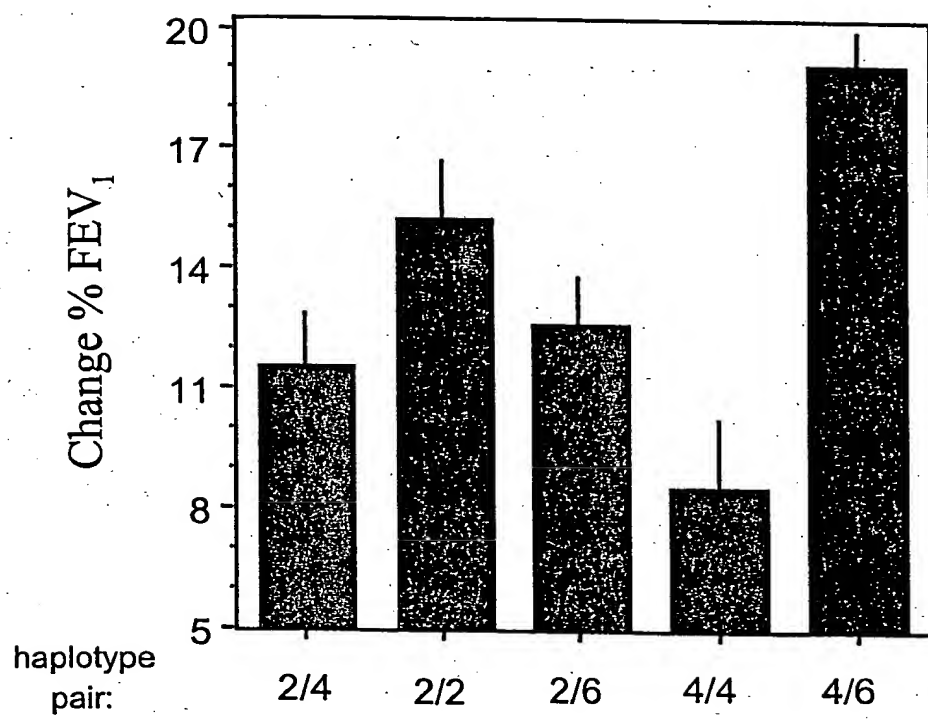


Figure 5

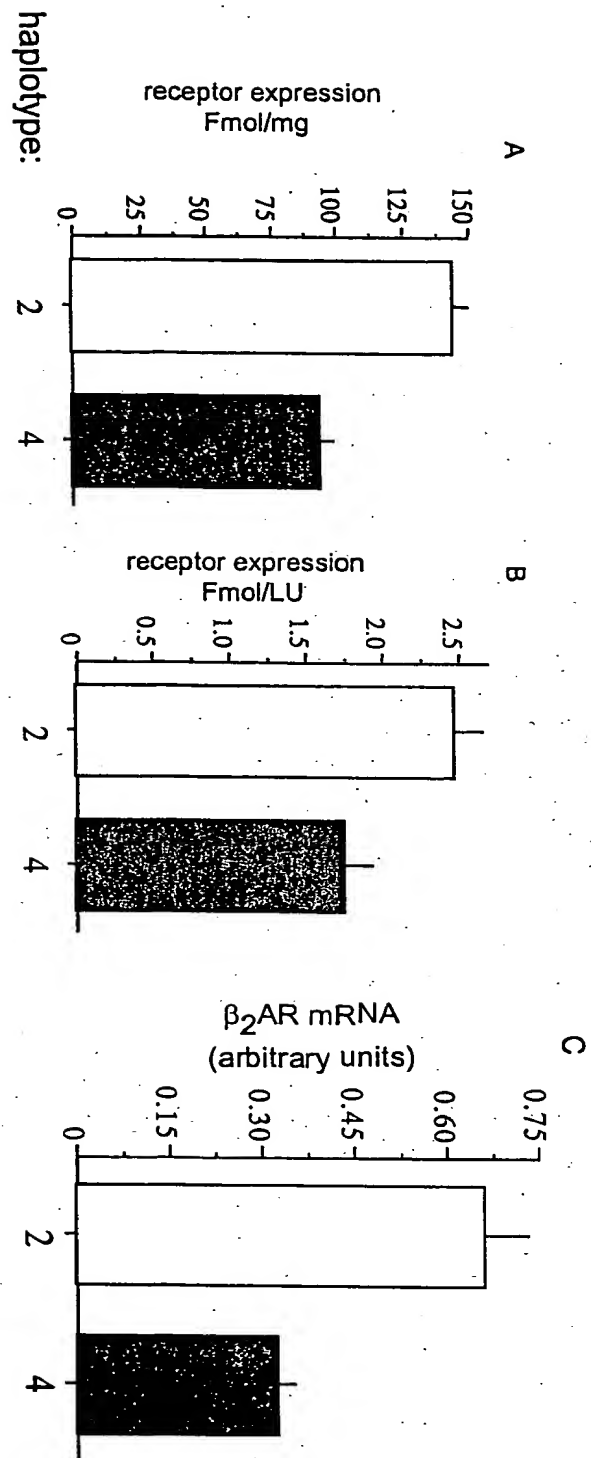


Figure 6